# Recombinant OBP2B protein (His tag)

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| **Catalog Number** | 549655 |
| **Synonyms** | Odorant-binding protein IIb; OBPIIb |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q9NPH6 |
| **Molecular Weight** | Predictes a molecular mass of 19.62 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 21 kDa band. |

## Product Information

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| **Sequence Region** | 16-170 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >88%, by SDS-PAGE with Coomassie Brilliant Blue staining. |
| **Endotoxin** | Not tested. |
| **Activity** | Not tested. |
| **Stability** | Samples are stable for up to twelve months from date of receipt at -70℃ |
| **Protein Construction** | DNA encoding 16-170 aa (Q9NPH6) were fused with 6His tag. |

## Storage & Handling

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| **Reconstitution** | Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. |
| **Storage** | Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| **Shipping** | In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |

## Description

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| **Description** | Recombinant Human Odorant-binding protein 2b (OBPIIb) Fragment (aa 16-170) is a high-quality protein product designed for research applications. This 155-amino acid fragment represents a stable and soluble unit of the protein, ideal for structural studies and biochemical analyses of small hydrophobic molecule binding and transport mechanisms.<br>Odorant-binding protein 2b (OBPIIb), encoded by the OBP2B gene in humans, functions in binding and transporting small hydrophobic volatile molecules. As a secreted protein, it operates in extracellular environments where it likely participates in the recognition and transport of odorants or similar hydrophobic compounds. This recombinant fragment provides researchers with a reliable tool to investigate the protein's molecular interactions and structural characteristics without the complexities of the full-length protein. |